

In the Claims

1. (currently amended) An integral screen for use in a vibrating machine for separating solids from liquid material, comprising a support structure comprising a rigid rectangular support frame defining a first rectangular opening, and woven wire cloth of orthogonal warp and weft wires, the first rectangular opening in the support structure including a plurality of similarly dimensioned, similarly orientated and regularly arranged smaller rectangular openings or windows, formed by a lattice of struts criss-crossing the first opening, wherein the cloth is bonded to the support structure, being bonded to the lattice struts as well as the boundary of the first opening, with the cloth extending in a tensioned state across the first opening, the cloth has rectangular openings in the weave, having a greater number of warp wires per unit length than there are weft wires per unit length, and the orientation of the cloth is such that the warp wires extend across the width (i.e. shorter dimension) of the first rectangular opening and the weft wires extend across the length (i.e. longer dimension) of the first rectangular opening, with the warp wires also being parallel to the width dimension (i.e. the shorter sides) of the smaller rectangular openings.
- 2-5. (cancelled)
6. (previously presented) A screen as claimed in claim 1 wherein the warp wires have a cross-sectional area of between 10% and 30% greater than the weft wires.
7. (original) A screen as claimed in claim 6 wherein the warp wires have a cross-sectional area in the range 20% to 25% greater than the weft wires.
8. (original) A screen as claimed in claim 7 wherein the warp wires have a cross-sectional area 22% greater than that of the weft wires.
9. (previously presented) A screen as claimed in claim 1 wherein the wires are of circular cross-section.
10. (original) A screen as claimed in claim 9 wherein the diameter of the larger warp wires is 0.046 mm, and the diameter of the weft wires is 0.036 mm.

11-17 (cancelled)

18. (currently amended) An integral screen for use in a vibrating machine for separating solids from liquid material, comprising a support structure comprising a rigid rectangular support frame defining a first rectangular opening, and woven wire cloth of orthogonal warp and weft wires, the first rectangular opening in the support structure including a plurality of similarly dimensioned, similarly orientated and regularly arranged smaller rectangular openings or windows, formed by a lattice of struts criss-crossing the first opening, wherein the cloth is bonded to the support structure, being bonded to the lattice struts as well as the boundary of the first opening, with the cloth extending in a tensioned state across the first opening, the cloth has generally square openings in the weave, the warp wires all have a greater cross-sectional area than all the weft wires, and the orientation of the cloth is such that the warp wires extend across the width (i.e. shorter dimension) of the first rectangular opening and the weft wires extend across the length (i.e. longer dimension) of the first rectangular opening, with the warp wires also being parallel to the width dimension (i.e. the shorter sides) of the smaller rectangular openings.
19. (previously presented) A screen as claimed in claim 18 wherein the warp wires have a cross-sectional area of between 10% and 30% greater than the weft wires.
20. (previously presented) A screen as claimed in claim 19 wherein the warp wires have a cross-sectional area in the range 20% to 25% greater than the weft wires.
21. (previously presented) A screen as claimed in claim 20 wherein the warp wires have a cross-sectional area 22% greater than that of the weft wires.
22. (previously presented) A screen as claimed in claim 18 wherein the wires are of circular cross-section.
23. (previously presented) A screen as claimed in claim 22 wherein the diameter of the larger warp wires is 0.046 mm, and the diameter of the weft wires is 0.036 mm.

24. (currently amended) A vibrating machine for separating solids from liquid material, the machine including an integral screen over which solids flow in a specified direction, the screen comprising a support structure comprising a rigid rectangular support frame defining a first rectangular opening, and woven wire cloth of orthogonal warp and weft wires, the first rectangular opening in the support structure including a plurality of similarly dimensioned, similarly orientated and regularly arranged smaller rectangular openings or windows, formed by a lattice of struts criss-crossing the first opening, wherein the cloth is bonded to the support structure, being bonded to the lattice struts as well as the boundary of the first opening, with the cloth extending in a tensioned state across the first opening, the cloth has rectangular openings in the weave, having a greater number of warp wires per unit length than there are weft wires per unit length, and the orientation of the cloth is such that the warp wires extend across the width (i.e. shorter dimension) of the first rectangular opening and the weft wires extend across the length (i.e. longer dimension) of the first rectangular opening, wherein the weft wires of the cloth are aligned with said specified direction of solids flow over the screen, with the warp wires also being parallel to the width dimension (i.e. the shorter sides) of the smaller rectangular openings.